Louisville and Jefferson County
Metropolitan Sewer District

400 South Sixth Street
Louisville, Kentucky 40202-2397

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MSD

October 31, 1994

Ms. Liza Montalvo
Residual Project Manager
Kentucky/Tennessee Section
U. S. Environmental Protection Agency
Region IV
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Re: Report of Field Observation - FY 95, First Quarter (FY95-1Q), Lees Lane Superfund Site, Jefferson County, Kentucky, Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Montalvo:

In accordance with Paragraph 11, under the heading Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lees Lane Landfill Site, I am enclosing one (1) copy of the Report of Field Observation (Appendix J), identified as Observation Report No. FY95-1Q, for your information and files.

Please advise if you have any questions concerning the attached Report of Field Observation for FY95-1Q.

Very truly yours,

C. A. Neumayer
Director of Operations

CAN/dc
CAN1-1x

DOCUMENT CONTROL NUMBER 4400-83-AGVD

Enc.

cc: Kentucky Natural Resource Environment Protection Cabinet
Rick Hogan, Division of Waste Management
Kentucky Natural Resource Environment Protection Cabinet
Mr. Jeff Pratt, Division of Waste Management
G. R. Garner, Executive Director
File WD-2 (Lees Lane M&M Quarterly)

10861878

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FY95-1Q Date of Observation: 09/27/94

Time Arrived Onsite: 9:45 a.m. Time Departed Site: 11:20 a.m.

Field Personnel: C. A. Neumayer, Director of Operations and R. H. Watkins, Support Services Manager, Maintenance Division

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Section A: General Site Conditions

Observation:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/ fill material		X		A-1
2. Evidence of leachate seepage		X		
3. Distressed Vegetation		X		
4. Pot holes, erosion of access road		X		A-4

Section B: Institutional Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade		X		B-1
2. Structural problem with Putman Ave. barricade	X			B-2
3. Lee's Lane gate unlocked		X		
4. Broken or missing lock		X		

Section C: Gas Collection System

Observation:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house, wells, or moisture traps		X		C-1
2. Structural damage to blower house		X		C-2
3. Blower not operating or visible damage		X		
4. Blower house not secure and unclean		X		

Observation:	Yes*	No	Not Observed	Comment No.
5. Service box lids not in place	__	X	__	____
6. Alarm and blower controls not functioning	__	X	__	____
7. Settlement or tilting of well/moisture trap concrete collars	X	__	__	C-7
8. Well/moisture trap covers missing or damaged	__	X	__	____
9. Excessive vegetation covering wells/mositure traps	__	X	__	____
10. Adjustment valve inaccessible	__	X	__	____
11. Well/moisture trap caps, plugs, and piping missing or damaged	X	__	__	C-11
12. Blower house and well/ moisture trap signs missing or damaged	__	X	__	____

Section D: Groundwater & Gas Monitor Wells

Observation:	Yes*	No	Not Observed	Comment No.
1. Wells unlocked	__	X	__	____
2. Guard posts and rails missing or damaged	__	X	__	D-2
3. Protective casing missing, damaged or rusted	__	X	__	____
4. Concrete pads damaged or cracked	X	__	__	D-4
5. Possible surface water infiltration into wells	__	X	__	____
6. Excessive vegetation or debris around wells	__	X	__	____
7. Well cap missing or damaged	X	__	__	____
8. Tubing, fittings, and valves missing or damaged (gas wells only)	__	__	X	D-8

Section E: Bank Protection Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving		X		
2. Erosion of rip-rap or underlying material			X	E-2
3. Abnormally damp areas, wet ground vegetation		X		
4. Soft spots in surface	X			E-4
5. Seepage, water flow, piping, or sand boils			X	
6. Undermining of rip-rap		X		
7. Vegetative growth on rip-rap slope	X			E-7
8. Buildup of trash and debris on rip-rap	X			E-8
9. Exposed trash or filter fabric		X		
10. Tilting trees		X		
11. Tension cracks		X		
12. Survey monuments missing or damaged		X		

Section F: Surface Waste Cleanup/Cover

Observation:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep		X		F-1
2. Cracks greater than 1 inch wide and 6 inches deep		X		
3. Areas of erosional damage to grass		X		
4. Inadequate grass cover (area > 36 ft^2		X		
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)		X		
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)		X		

* If yes, assign a comment no. in the last column and follow instructions on comment sheet.

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY95-1Q Date of Observation 09/27/94

Site Map

Signature of Observer: [signature] Date: October 31, 1994

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No.: FY95-1-Q **Date of Observation: 09/27/94**

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No.:	Comment
A-1	All fill material in the vicinity of Gas Collection Well No. 6 has been spread, eliminating the rutted areas.
B-1	Deteriorated guard rails along north side of Lees Lane leading to the entrance gate have been removed and replaced with a new post and cable barrier system. Remaining steel guard rails have been painted.
B-2	Condition of the Putman Avenue barricade remains unchanged from previous quarterly inspections. Security cable installed by MSD forces continues to prevent unauthorized entry to the landfill site from adjacent residential properties at the end of Putman Avenue. Noted some evidence of solid waste dumping tending to encroach beyond the site boundaries.

Comment No.:	Corrective Action Performed
A-1	No further corrective action required at this time. Continue to monitor at subsequent quarterly institutional inspections.
B-1	No further corrective action required at this time. Continue to monitor at subsequent quarterly institutional inspections.
B-2	No further corrective action required at this time. Continue to monitor at subsequent quarterly institutional inspections.

Comment No.:	Comment
C-1	Continued evidence of small arms fire damage to Blower House warning signs.
C-2	No significant structural damage to Blower House observed at time of inspection. Some minimal damage to concrete block by small arms fire was evident.
C-7	Observed gas collection well and moisture trap concrete collars damaged at Gas Collection Wells No.s 7, 13 and 15. This damage has been previously reported and should be corrected as part of the investigation into vacuum conditions of the gas well field piping system, see comments C-11.
C-11	Verification of vacuum conditions of well field piping system between Gas Collection Wells Nos. 1 and 14, inclusive, remains to be completed. Investigation of vacuum conditions subject to scheduling arrangements between MSD Urban Area Maintenance section and Maintenance Division, Wastewater Repair Department.

Comment No.	Corrective Action Performed
C-1	Small arms fire damage to warning signs is minimal at this time; therefore, no further corrective action required.
C-2	No significant structural damage requiring corrective action at this time. Extent of small arms fire damage to concrete block walls of the Blower House will be assessed the next quarterly institutional inspection.
C-7	Damage to concrete well and moisture trap collars to be scheduled for repair or replacement during FY 95-2Q.
C-11	Vacuum testing still needs to be scheduled in order to verify those gas collection wells not functioning properly. Following verification, selected exploratory excavation work will need to be performed in order to expose several well heads and moisture traps to determine what malfunctions are causing lack of vacuum for the collection system. Depending on work force availability and weather conditions, the testing and exploration should be performed before the end of FY95-4Q.

Comment No.	Comment
D-2	Observed all guard post and rails for groundwater and gas monitoring wells have been repainted. However, repairs will be required to damaged horizontal guard rails on gas monitoring Well No. G-4 on the landside of the levee north of Lees Lane.
D-4	Observed new concrete seal pads had been installed at groundwater Wells Nos. 1, to 5, inclusive. However, the concrete pad workmanship at Well No. 5 is unsatisfactory.
D-7	There is apparent damage to steel hinge and cap on groundwater Well No. 3 near the center of the clay cap.
D-8	Condition of tubing and fittings at gas monitoring wells could not be observed because all security locks were in place. Assume all tubing and fittings are in working order because of their use during the quarterly field monitoring activities conducted earlier in the month of September, 1994.

Comment No.:	Corrective Action Performed
D-2	Repairs to horizontal guard rails on gas monitoring Well No. G-4 should be scheduled for repair during FY 95-2Q.
D-4	Work replacing unsatisfactory seal pad at groundwater Well No.5 will be scheduled for replacement before the end of FY 95-2Q.
D-7	Damage to steel hinge on Groundwater Well No. 3 is minor; therefore, no corrective action considered necessary at this time. Continue to monitor at subsequent quarterly institutional inspections.
D-8	No corrective action required at this time.

Comment No.:	Comment
E-2	Unable to observe any significant erosion of riprap or underlying material because of extensive vegetative growth which continues to stabilize the river bank.
E-4	No observed change from previous quarterly inspections of the minor depression approximately 50 feet south of Benchmark No. 4, immediately west of the access road in the vicinity of the shale drainage swale.
E-7	Observed limited evidence of spotty areas of vegetative growth in the upper portion of the central tract riprap section protecting the clay cap area.
E-8	Observed drift debris deposited by high Ohio River water levels. This drift debris has been deposited on the lower portion of the riprap section of the clay cap bank and is substantially the same as observed during prior quarterly institutional inspections.

Comment No.	Corrective Action Performed
E-2	Arrangements to be made for procurement of an independent contractor to spray for control of excessive vegetation growth in the riprap section with an approved herbicide prior to the end of FY 95-4Q and to provide better observation of the condition of the riprap and underlying materials. Herbicide spraying of vegetation below the bottom of the riprap section adjacent to the Ohio River should be avoided because this vegetation provides bank stability and avoids scouring under high water conditions on the Ohio River.
E-4	Continue to monitor minor depression observed approximately 50 feet south of Benchmark No. 4 and west of the shale ditch swale at subsequent quarterly institutional inspections.
E-7	Continue observation of spotty vegetative growth areas in the upper portion of the central cracked riprap section during subsequent quarterly institutional inspections.
E-8	No corrective action proposed to remove drift from riprap section of the clay cap area because of the lack of appropriate access and the fact that the debris is not causing any problems at this time.

Comment No:	Comment
E-12	Located and paint marked seven riprap cap monuments. No horizontal or vertical movement was visually evident at any of the seven monument locations.
F-1	Observed the shale drainage swale between the clay cap access road and the top of the riprap section. The drainage swale appears to be in satisfactory condition with no evidence of erosion or standing water between the access road and the riprap section.

Comment No:	Corrective Action Performed
E-12	Permanent location markers to be installed at edge of ridrap section opposite the seven riprap capped monuments before the end of FY95-4Q.
F-1	Continue to monitor shale drainage swale at quarterly institutional inspections for any significant evidence of erosion or standing water.